Vertical injection molding machine

Injection Molding System General Solution

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Multitech specializes in the manufacturing of vertical and horizontal precision injection molding machine, provides special injection molding machines (Especially high-end precision LSR injection molding machine) and integrated solutions. Multitech mainly focuses on 4 industries - Automotive, Mobile phone/ related accessories, Electronic appliances and Medical.

The company was founded in 1994, and the factory at Shajing of Shenzhen was built and put into service in September, 2002. A 20,000 square meters new plant will be completed in 2016 for business development. The new plant will start production from the second half year in 2017.

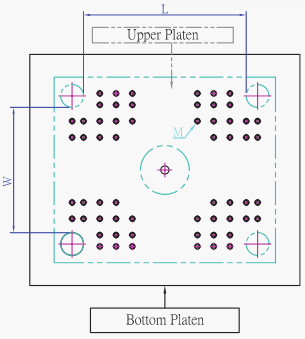
Multitech has good sales network and provide excellent after-sales service, has established brand in Shen Zhen, Dongguan, Kunshan, Shanghai, Hong Kong and Taiwan. Multitech also has agents in United States, Mexico, South America, Japan, Singapore, Thailand, Malaysia and India. We plan to setup branches in Europe in the coming one year.

Standard

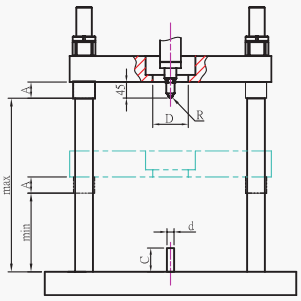
Special

V series Clamping Force:35-250Ton

1 Vertical clamping, vertical injection, easy to insert.



Platen



Clamping Unit Diagram

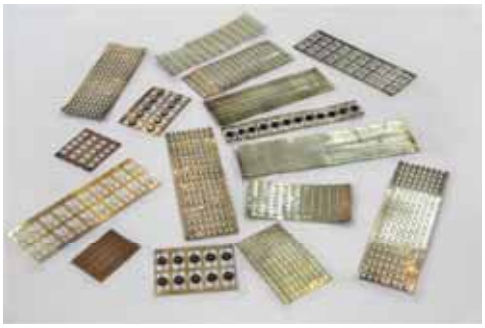
MODEL	Distance Between Tie Bars L	W	Plate hole M	Clamping Stroke min	max	Circular Spacer A	Locating RIng D	Nozzle Radlan R	Ejector Dlameter d	Ejector DIstance C
V35	370	210	M12	150	350	50	Φ100	R10	Φ20	40
V55	445	255	M12	180	380	80	Φ110	R10	Φ20	40
V85	500	385	M16	230	480	100	Φ120	R10	Φ25	50
V120	760	380	M16	280	560	100	Φ120	R10	Φ25	95
V160	860	420	M16	300	600	100	Φ120	R10	Φ25	95
V200	910	450	M16	350	700	100	Φ150	R15	Φ30	110

SPECIFICATION	MODEL	UNIT	V35		V35S		V55		V55S		V85		V85S	
Injection Unit	Screw Diameter	mm	SP(Φ18/22)	Φ22	Φ25	Φ28	SP(Φ18/22)	Φ28	Φ32	Φ36	SP(Φ18/22)	Φ32	Φ36	Φ40
	Screw Stroke	mm	115	140			115	141			115	140		
	Theoretical Injection Volume	cm^3	28/41.7	53	68.8	86	28/41.7	86	112.5	142	28/41.7	113	142	176
	Injection Weight(PS)	g(oz)	26(0.9)/38.7(1.3)	49(1.7)	63.8(2.2)	80(2.8)	26(0.9)/38.7(1.3)	80(2.8)	104(3.6)	132(4.6)	26(0.9)/38.7(1.3)	105(3.7)	132(4.6)	164(5.8)
	Plasticizing Capacity	g/s	2.1/4.2	4.2	6	8.2	2.1/4.2	8.2	11.7	16.5	2.1/4.2	14.6	20.6	26.8
	Max.Injection Pressure	Mpa(kgf/cm²)	254(2592)/170(1735)	248(2530)	192(1960)	153(1563)	254(2592)/170(1735)	212(2170)	162(1661)	128(1312)	254(2592)/170(1735)	229(2331)	181(1842)	146(1492)
	Injection Rate	cm^3/s	43/64	44	57	71	53/80	63	83	105	77/116	86	109	134
	Injection Speed (Speed up)	mm/s	SP 169(273)	V35 116(186)			SP 210(305)	V35 143(207)	V55 103(149)		SP 305(392)	※V35 207(267)	V55 149(192)	V85 107(138)
	Screw Speed Rotation	r.p.m	0~240				0~240				0~300			
	Nozzle Sealing Force	kN(tf)	47.3(4.8)				47.3(4.8)				51.7(5.3)			
	Nozzle Out From Platens	mm	≥45				≥45				≥45			
Clamping Unit	Clamping Force	kN(tf)	343(35)				539(55)				833(85)			
	Mold Opening Force	kN(tf)	76.5(7.8)				81.8(8.4)				101.7(10.4)			
	Clamping Stroke	mm	200				200				250			
	Min.Mold Thickness (B)	mm	150(200) 140(190)				180(260) 170(250)				230(330) 220(320)			
	Max.Opening (B)	mm	350(400) 340(390)				380(460) 370(450)				480(580) 470(570)			
	Distance Between Tie Bars	mm	370*210				445*255				500*385			
	Max.Mould Size	mm	350*340		340*330		425*380		380*376		550*480		550*470	
	Max.Mould Weight	KG	—		280		—		385		—		670	
	Platen / Slide Size	mm	500*360		440*350		580*400		500*396		680*570		620*490	
	Ejector Distance	mm	40		100		40		100		50		100	
	Ejector Force	kN(tf)	17.2(1.75)		17.4(1.78)		17.2(1.75)		26.5(2.7)		26.5(2.7)		26.5(2.7)	
	Number of Ejectors	pcs	1		3		1		3		1		3	
Others	System Pressure	Mpa(kgf/cm²)	13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)	
	Oil Tank Capacity	L	145		145		210		210		300		300	
	Electric Power	kW(HP)	5.5(7.5)		5.5(7.5)		7.5(10)		7.5(10)		15(20)		15(20)	
	Heater Power	kW	3.6		3.6		5.5		5.5		6.4		6.4	
	Number of Heating Zones		4	4			4	5			4	5		
	Height of Working Table	mm	929		929		977		977		1051		1051	
	Machine Dimensions L*W H	mm	1539*1152 2136(2696)		1680*1152 2204(2764)		1860*1265 2335(2945)		2016*1265 2405(2995)		1960*1410 2632(3352)		2140*1410 2736(3456)	
	Machine Weight	tf	1.3		1.4		1.6		1.7		3.0		3.3	

★ When Insulation plate is used, nozzle is over 20mm from the platen;

V-S series Clamping Force:35-250Ton

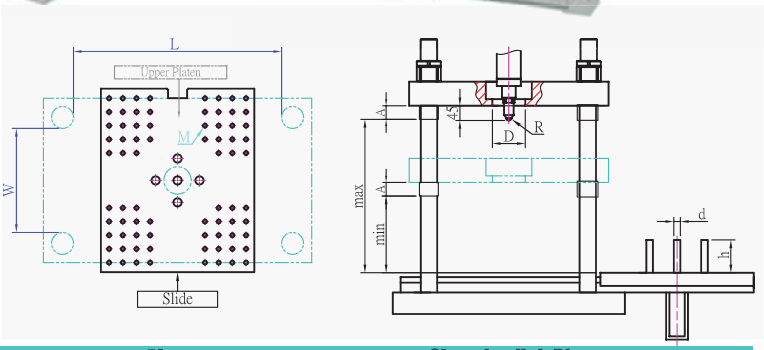
1. Vertical clamping, vertical injection, easy to insert.
2. S- single slide table(1 upper mold,1 bottom mold).
3. In-out table design, more convenient.



V120S

V200S

MODEL	Distance Between Tie Bars		Plate hole	Clamping Stroke		Circular Spacer	Locating Ring	Nozzle Radian	Ejector Diameter	Ejector Distance
	L	W	M	min	max	A	D	R	d	h
V35S	370	210	M12	150	350	50	Φ100	R10	Φ20	100
V55S	445	255	M12	180	380	80	Φ110	R10	Φ20	100
V85S	500	385	M16	230	480	100	Φ120	R10	Φ25	100
V120S	760	380	M16	280	560	100	Φ120	R10	Φ25	100
V160S	860	420	M16	300	600	100	Φ120	R10	Φ25	125
V200S	910	450	M16	350	700	100	Φ150	R15	Φ30	150



Platen | Clamping Unit Diagram

V120		V120S		V160		V160S		V200		V200S	
SP(Φ22)	Φ36	Φ40	Φ45	SP(Φ22)	Φ45	Φ50	Φ55	Φ55	Φ60	Φ70	
115		160		115		200			240		
41.7	162	201	254	41.7	318	393	475	570	678	923	
38.7(1.3)	151(5.3)	187(6.6)	236(8.3)	38.7(1.3)	296(10.4)	365(12.8)	442(15.6)	530(18.6)	630(22.2)	858(30.2)	
4.2	20.6	26.8	34.5	4.2	27.6	35.2	43.2	32.4	41.5	60.6	
170(1735)	222(2268)	180(1838)	142(1452)	170(1735)	218(2226)	177(1803)	146(1490)	235(2406)	198(2022)	146(1486)	
149	114	140	178	152	178	220	266	214	254	346	
SP 392	V55 192(296)	V85 138(212)	V120 112(172)	★SP 400	★V55 295	V85 212	V120 172	V160 112	★V85 280	V120 227	V160 148	V200 90
0~300				0~240				0~180			
99.6(10.2)				99.6(10.2)				172.3(17.6)			
≥45				≥45				≥45			
1176(120)				1568(160)				1960(200)			
161.5(16.4)				161.5(16.4)				161.5(16.4)			
280				300				350			
280(380) 270(370)				300(400) 280(380)				350(450) 330(430)			
560(660) 550(650)				600(700) 580(680)				700(800) 680(780)			
760*380				860*420				910*450			
740*580		580*540		840*710		710*630		890*770		770*680	
—		925		—		1200		—		1495	
980*600		670*560		1170*730		730*650		1250*790		860*700	
95		100		95		125		110		150	
45(4.6)		45(4.6)		45(4.6)		45(4.6)		45(4.6)		45(4.6)	
1		3		1		5		1		5	
13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)	
400		400		600		600		790		790	
18.5(25)		18.5(25)		22.5(30)		22.5(30)		30(40)		30(40)	
10.7		10.7		13.8		13.8		20.2		20.2	
4		5		4		5		6			
1232		1213		1401		1363		1583		1553	
2000*1770 3125(3965)		2380*1770 3205(4045)		2330*1960 3560(4492)		2687*1960 3632(4564)		2400*2060 4255(5345)		2867*2060 4345(5435)	
5.5		6.0		6.9		8.1		11.0		12.3	

● When injection speed reaches 280 mm/s,injection hydraulic circuit must be upgraded to high responsive valve; If high responsive valve is not used,injection speed will be limited within 280mm/s.

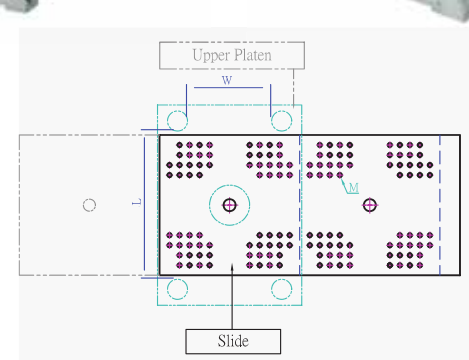
V-SD series Clamping Force:35-250Ton

1. Vertical clamping, vertical injection, easy to insert.
2. SD- The integrated double slide table (1 upper mold,2 bottom mold).
3. SDS- The split double slide table (1 upper mold,2 bottom mold).
4. Double Slide Table design, increase production and more convenient.

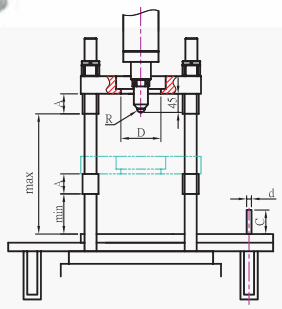
V55SD

V85SDS

MODEL	Distance Between Tie Bars L	W	Plate hole M	Clamping Stroke min	max	Circular Spacer A	Locating Ring D	Nozzle Radian R	Ejector Diameter d	Ejector Distance C
V35SD	370	210	M12	150	350	50	Φ100	R10	Φ20	40
V55SD	445	255	M12	180	380	80	Φ110	R10	Φ20	40
V85SD	658	335	M16	230	480	100	Φ120	R10	Φ25	50
V120SD	760	380	M16	280	560	100	Φ120	R10	Φ25	95
V160SD	860	420	M16	300	600	100	Φ120	R10	Φ25	95
V200SD	910	450	M16	350	700	100	Φ150	R15	Φ30	110



Platen



Clamping Unit Diagram

SPECIFICATION	MODEL	UNIT	V35SD		V35R2		V55SD		V55R2		V85SD		V85R2	
Injection Unit	Screw Diameter	mm	SP(Φ18/22)	Φ22	Φ25	Φ28	SP(Φ18/22)	Φ28	Φ32	Φ36	SP(Φ18/22)	Φ32	Φ36	Φ40
	Screw Stroke	mm	115		140		115		141		115		140	
	Theoretical Injection Volume	cm^3	28/41.7	53	68.8	86	28/41.7	86	112.5	142	28/41.7	113	142	176
	Injection Weight(PS)	g(oz)	26(0.9)/38.7(1.3)	49(1.7)	63.8(2.2)	80(2.8)	26(0.9)/38.7(1.3)	80(2.8)	104(3.6)	132(4.6)	26(0.9)/38.7(1.3)	105(3.7)	132(4.6)	164(5.8)
	Plasticizing Capacity	g/s	2.1/4.2	4.2	6	8.2	2.1/4.2	8.2	11.7	16.5	2.1/4.2	14.6	20.6	26.8
	Max.Injection Pressure	Mpa(kgf/cm²)	254(2592)/170(1735)	248(2530)	192(1960)	153(1563)	254(2592)/170(1735)	212(2170)	162(1661)	128(1312)	254(2592)/170(1735)	229(2331)	181(1842)	146(1492)
	Injection Rate	cm^3/s	43/64	44	57	71	53/80	63	83	105	77/116	86	109	134
	Injection Speed (Speed up)	mm/s	SP 169(273)		V35 116(186)		SP 210(305)	V35 143(207)	V55 103(149)		SP 305(392)	※V35 207(267)	V55 149(192)	V85 107(138)
	Screw Speed Rotation	r.p.m	0~240				0~240				0~300			
	Nozzle Sealing Force	kN(tf)	47.3(4.8)				47.3(4.8)				51.7(5.3)			
	Nozzle Out From Platens	mm	≥45				≥45				≥45			
Clamping Unit	Clamping Force	kN(tf)	343(35)				539(55)				833(85)			
	Mold Opening Force	kN(tf)	76.5(7.8)				81.8(8.4)				101.7(10.4)			
	Clamping Stroke	mm	200				200				250			
	Min.Mold Thickness (B)	mm	150(200) 140(190)				180(260) 170(250)				230(330) 220(320)			
	Max.Opening (B)	mm	350(400) 340(390)				380(460) 370(450)				480(580) 470(570)			
	Distance Between Tie Bars	mm	370*210		—		445*255		—		658*335		—	
	Max.Mould Size	mm	330*330		300*300		380*376		300*300		500*475		340*340	
	Max.Mould Weight	KG	550		500		750		700		1000		900	
	Platen / Slide Size	mm	750*350		Φ780		890*396		Φ880		1135*495		Φ980	
	Ejector Distance	mm	100		75		100		100		100		100	
	Ejector Force	kN(tf)	17.2(1.78)		26.5(2.7)		26.5(2.7)		26.5(2.7)		26.5(2.7)		45(4.6)	
	Number of Ejectors	pcs	1		3		3		3		3		3	
Others	System Pressure	Mpa(kgf/cm²)	13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)	
	Oil Tank Capacity	L	160		220		220		280		330		380	
	Electric Power	kW(HP)	7.5(10)		7.5(10)		11(15)		11(15)		15(20)		15(20)	
	Heater Power	kW	3.6		3.6		5.5		5.5		6.4		6.4	
	Number of Heating Zones		4		4		4		5		4		5	
	Height of Working Table	mm	1020		980		1038		1115		1146		1180	
	Machine Dimensions L*W H	mm	1550*1180 2227(2787)		1865*1500 2210(2770)		1650*1380 2400(2990)		2158*1639 2500(3080)		2090*1700 2730(3450)		2332*1923 2770(3510)	
	Machine Weight	tf	1.6		2.1		2.1		2.6		3.6		4.2	

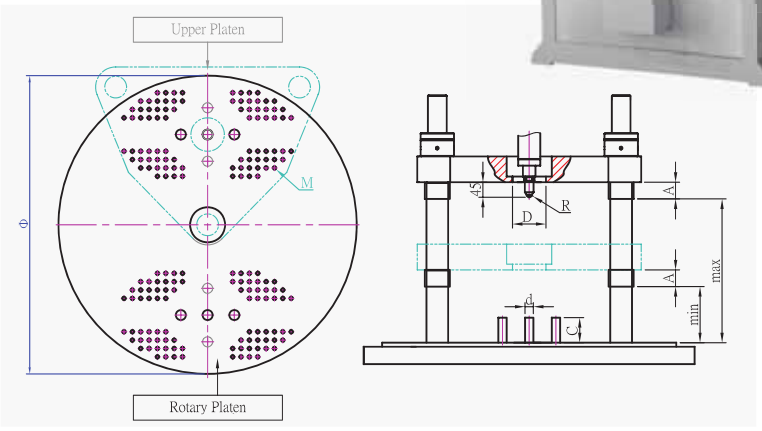
★ When insulation plate is used,nozzle is over 20mm from the platen;

V-R series Clamping Force:35-250Ton

1. Vertical clamping,vertical injection,easy to insert
2. R2:3-tie bar 2-station rotary table. R3:4-tie bar 3-station rotary table.
3. Multi-stations rotary table(1 upper mold，2-4 bottom molds)，increase production

V55R2

V85/1170R2



Rotary Platen　　Clamping Unit Diagram

MODEL	Distance Between Tie Bars	Plate hole	Clamping Stroke	Circular Spacer	Locating Ring	Nozzle Radian	Ejector Diameter	Ejector Distance
	Φ	M	min max	A	D	R	d	C
V35R2	780	M12	150 350	50	Φ100	R10	Φ20	75
V55R2	880	M12	180 380	80	Φ110	R10	Φ25	100
V85R2	980	M16	230 480	100	Φ120	R10	Φ25	100
V120R2	1170	M16	280 560	100	Φ120	R10	Φ25	110
V160R2	1360	M16	300 600	100	Φ120	R10	Φ25	110
V200R2	1590	M16	350 700	100	Φ150	R15	Φ30	150

V85/1170R2		V85/1590R2		V120SD		V120R2		V160SD		V160R2		V200SD		V200R2
SP(Φ18/22)	Φ32	Φ36	Φ40	SP(Φ22)	Φ36	Φ40	Φ45	SP(Φ22)	Φ45	Φ50	Φ55	Φ55	Φ60	Φ70
115		140		115		160		115		200			240	
28/41.7	113	142	176	41.7	162	201	254	41.7	318	393	475	570	678	923
26(0.9)/38.7(1.3)	105(3.7)	132(4.6)	164(5.8)	38.7(1.3)	151(5.3)	187(6.6)	236(8.3)	38.7(1.3)	296(10.4)	365(12.8)	442(15.6)	530(18.6)	630(22.2)	858(30.2)
2.1/4.2	14.6	20.6	26.8	4.2	20.6	26.8	34.5	4.2	27.6	35.2	43.2	32.4	41.5	60.6
254(2592)/ 170(1735)	229(2331)	181(1842)	146(1492)	170(1735)	222(2268)	180(1838)	142(1452)	170(1735)	218(2226)	177(1803)	146(1490)	235(2406)	198(2022)	146(1486)
77/116	86	109	134	149	114	140	178	152	178	220	266	214	254	346
SP 305(392)	※V35 207(267)	V55 149(192)	V85 107(138)	SP 392	V55 192(296)	V85 138(212)	V120 112(172)	★SP 400	★V55 295	V85 212	V120 172	V160 112	★V85 280	V120 227	V160 148	V200 90
0~300				0~300				0~300				0~220		
51.7(5.3)				99.6(10.2)				99.6(10.2)				172.3(17.6)		
≥45				≥45				≥45				≥45		
833(85)				1176(120)				1568(160)				1960(200)		
101.7(10.4)				161.5(16.4)				161.5(16.4)				161.5(16.4)		
300				280				300				350		
230(330) 220(320)				280(380) 270(370)				300(400) 280(380)				350(450) 330(430)		
530(630) 520(620)				560(660) 550(650)				600(700) 580(680)				700(800) 680(780)		
—				760*380		—		860*420		—		910*450		—
400*400		590*590		580*540		400*400		640*630		500*500		730*710		590*590
1250		1830		1370		1250		1820		1500		2325		1830
Φ1170		Φ1590		1290*560		Φ1170		1400*650		Φ1360		1590*730		Φ1590
110		150		100		110		125		110		150		150
45(4.6)				45(4.6)		45(4.6)		45(4.6)		45(4.6)		45(4.6)		45(4.6)
5				3		5		5		5		5		5
13.7(140)				13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)		13.7(140)
400		430		450		510		660		720		840		910
15(20)				18.5(25)		18.5(25)		22.5(30)		30(40)		37.5(50)		37.5(50)
6.4				10.7		10.7		13.8		13.8		20.2		20.2
4	5			4	5			4		5		6		
1110		1363		1310		1300		1413		1355		1673		1550
2541*2000 2722(3512)		2892*2417 3010(3700)		2126*1980 3205(4045)		2737*2003 3194(4034)		2296*2160 3622(4654)		2798*2223 3710(4710)		2860*2450 4345(5435)		3455*2392 4356(5446)
5.5		8.5		5.8		6.4		9.0		9.4		13.8		14.0

● When injection speed reaches over 280mm/s,injection hydraulic circuit must be upgraded to high responsive valve;if high responsive valve is not used,injection speed will be limited within 280mm/s.

H series Clamping Force:55-300Ton

1 Vertical clamping , Horizontal Injection, easy to insert and minimize the machine height.

2 Available with single slide tables(S),double slide table(SD)and rotary table(R),increase production.

《H160S

H300SD》

《H55/90R2

《H120

《H120R2

SPECIFICATION MODEL		UNIT	H55	H55S	H55SD	H55R2	H90	H90S	H90SD	H90R2	H120	H120S	H120SD	H120R2	H160	H160S	H160SD	H160R2
Injection Unit	Screw Diameter	mm	Φ18	Φ25	Φ30	Φ35	Φ25	Φ30	Φ35	Φ40	Φ35	Φ40	Φ45		Φ40	Φ45	Φ50	
	Screw Stroke	mm	140				160				160				220			
	Theoretical Injection Volume	cm^3	30.5	69	99	135	69	113	154	201	154	201	254		276	350	432	
	Injection Weight(PS)	g(oz)	28.3(1)	64(2.2)	93(3.2)	126(4.4)	64(2.2)	105(3.7)	143(5)	187(6.6)	143(5)	187(6.6)	236(8.3)		257(9)	326(11.5)	402(14)	
	Plasticizing Capacity	g/s	2.1	6	9	14.6	6	12.3	18.8	26.8	15	21.4	27.6		21.4	27.6	35.2	
	Max.Injection Pressure	Mpa(kgf/cm^2)	280(2852)	228(2330)	158(1617)	116(1188)	228(2330)	214(2178)	157(1600)	123(1225)	254(2592)	195(1985)	154(1568)		245(2494)	193(1970)	156(1596)	
	Injection Rate	cm^3/s	48	59	85	116	94	99	135	176	125	163	207		162	205	253	
	Injection Speed (Speed up)	mm/s	H30 191		H55 121		H55 194		H90 140		H90 170		H120 130		H120 160		H160 129	
	Screw Speed Rotation	r.p.m	0~300		0~240		0~300				0~240				0~240			
	Nozzle Sealing Force	kN(tf)	32.3(3.3)				32.3(3.3)				56.8(5.8)				86.2(8.8)			
Clamping Unit	Clamping Force	kN(tf)	539(55)				882(90)				1176(120)				1568(160)			
	Mold Opening Force	kN(tf)	81.8(8.4)				101(10.3)				150(15.3)				201(20.6)			
	Clamping Stroke	mm	200				300				350				400			
	Min.Mold Thickness (B)	mm	180 160				200 180				250 230				300 280			
	Max.Opening (B)	mm	380 360				500 480				600 580				700 680			
	Distance Between Tie Bars	mm	445*255			—	500*385		658*335	—	760*380			—	860*420			—
	Max.Mould Size	mm	425*380	380*376	380*376	300*300	550*480	550*470	500*475	340*340	650*595	580*540	580*540	395*395	840*710	710*630	640*630	460*460
	Max.Mould Weight	KG	—	385	750	700	—	670	1000	900	—	925	1370	1250	—	1200	1820	1350
	Platen / Slide Size	mm	580*400	500*396	890*396	Φ880	680*570	620*490	1135*495	Φ980	995*615	670*560	1290*560	Φ980	1170*730	730*650	1400*650	Φ1170
	Ejector Distance	mm	40	100	100	100	50	100	100	100	100				125			
	Ejector Force	kN(tf)	17.2(1.75)	26.5(2.7)	26.5(2.7)	26.5(2.7)	26.5(2.7)	26.5(2.7)	26.5(2.7)	45(4.6)	56.8(5.8)				56.8(5.8)			
	Number of Ejectors	pcs	1	3	3	3	1	3	3	3	3	3	3	3	5	5	5	5
Others	System Pressure	Mpa(kgf/cm^2)	13.7(140)			260	13.7(140)				17.2(175)				17.2(175)			
	Oil Tank Capacity	L	240		260	310	295		320	390	400		410	435	450		470	500
	Electric Power	kW(HP)	11(15)				15(20)				22.5(30)				22.5(30)			
	Heater Power	kW	5.7				7.2				8.4				9.5			
	Number of Heating Zones		4				5				5				6			
	Height of Working Table	mm	1035	1130	1130	1095	1160	1260	1260	1180	1000	1100	1100	1113	1000	1100	1100	1150
	Machine Dimensions L*W H	mm	2450*1230 1735	2425*1230 1820	2425*1380 1860	2700*1485 1890	3060*1255 1940	3060*1480 2030	3060*1900 2167	3105*1655 1975	3385*12660 2725	3385*1260 2840	3385*1940 2840	3135*1790 2855	3740*1415 2950	3740*1415 3050	3740*2060 3050	3730*2115 3220
	Machine Weight	tf	2.2	2.5	2.8	3.0	3.8	4.2	4.5	4.9	5.2	6.6	7.9	7.0	7.5	9.2	10.5	10.3

C series Clamping Force:55-85Ton

1. Vertical clamping, Horizontal Injection ,easy to insert.
2. C- frame tie-barless design, easy to insert long substrates or inserts with long leads (cord sets,connectors).
3. Available with double slide table(SD), increase production.

C55

C55SD

C55SD-CE

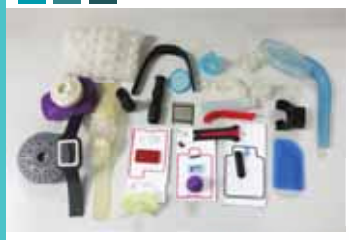
H220	H220S	H220SD	H220R2	H300	H300S	H300SD	H300R2
Φ45	Φ50		Φ55	Φ60	Φ65		Φ70
240				300			
382	471		570	848	995		1154
355(12.5)	438(15.4)		530(18.7)	788(27.8)	925(32.6)		1073(37.8)
18.6	23.7		29.1	37.4	45.4		54.5
244(2489)	198(2016)		163(1666)	198(2022)	169(1723)		146(1486)
207	255		309	395	464		538
H120 205	H160 165		H220 130	H220 205		H300 140	
0~160				0~160			
108.8(11.1)				134.3(13.7)			
2156(220)				2940(300)			
201(20.6)				201(20.6)			
450				500			
350 330				400 380			
800 780				900 880			
910*450			—	1060*680			—
890*790	770*680	730*710	500*500	1040*1040	1030*755	1030*810	590*590
—	1495	2325	1500	—	1650	3300	1830
1270*810	860*700	1590*730	Φ1360	1440*1060	1050*830	2100*830	Φ1590
125				150			
56.8(5.8)				56.8(5.8)			
5	5	5	5	5	5	5	5
17.2(175)				17.2(175)			
635		600	515	700		750	620
30(40)				45(60)			
13				20			
6				6			
1080	1200	1200	1290	1155	1345	1345	1255
4150*1520 3200	4150*1535 3320	4625*2450 3320	4275*2030 3485	5125*1910 3600	5125*2620 3850	5125*3550 3850	5030*2210 3620
11.0	11.7	13.0	11.6	13.5	14.7	16.2	15.6

SPECIFICATION	MODEL	UNIT	C55		C55SD		C85		C85SD
Injection Unit	Screw Diameter	mm	Φ25	Φ30	Φ38	Φ42	Φ38	Φ42	Φ50
	Screw Stroke	mm	140		150			160	
	Theoretical Injection Volume	cm^3	69	106	170	208	181	222	314
	Injection Weight(PS)	g(oz)	64(2.2)	98(3.5)	158(5.5)	193(6.8)	168(5.9)	206(7.3)	292(10.3)
	Plasticizing Capacity	g/s	6	9	19	21.5	19	21.5	35.2
	Max.Injection Pressure	Mpa(kgf/cm^2)	228(2329)	214(2178)	133(1357)	109(1111)	173(1760)	141(1440)	100(1016)
	Injection Rate	cm^3/s	69	73	117	143	125	153	217
	Injection Speed (Speed up)	mm/s	M50 140		103			111	
	Nozzle Sealing Force	kN(tf)			21.8(2.2)			45.5(4.6)	
	Screw Speed Rotation	r.p.m			0~240			0~240	
Clamping Unit	Clamping Force	kN(tf)			539(55)			833(85)	
	Mold Opening Force	kN(tf)			81.8(8.4)			103.3(10.5)	
	Clamping Stroke	mm			200			270	
	Min.Mold Thickness (B)	mm			175			185	
	Max.Opening (B)	mm			375			455	
	Max.Mould Size	mm	470*270		470*270		570*376		560*360
	Max.Mould Weight	KG	—		500		—		940
	Platen / Slide Size	mm	490*288		1050*290		590*396		1160*380
	Ejector Distance	mm			90			90	
	Ejector Force	kN(tf)			26.5(2.7)			26.5(2.7)	
	Number of Ejectors	pcs			3			3	
	System Pressure	Mpa(kgf/cm^2)			13.7(140)			13.7(140)	
	Oil Tank Capacity	L	155		225		295		300
Others	Electric Power	kW(HP)			7.5(10)			15(20)	
	Heater Power	kW			6.7			10.2	
	Number of Heating Zones				5			5	
	Height of Working Table	mm			892		1092		966
	Machine Dimensions L*W H	mm	2410*1040 1940		2350*1700 1940		2787*1250 2404		2790*1900 2445
	Machine Weight	tf	2.8		3.3		5.2		5.5

LSR series Clamping Force:55-160Ton

LSR(LIM) injection molding machine

1. Multi-stage mold heater and temperature control.
2. LSR special pneumatic sealing nozzle .
3. Special LSR barrel and screw set.
4. Insulation plate(standard:within 200°C） .
5. Rotary table or double slide tables design [1 upper mold,2 bottom mold], easy to pick-up. During heat curing, operator can make mold clean and insert, to increase the production.
6. Special screw change and injection design to make more accurate screw charge.
7. Optional vacuum device to prevent product with air bubble.



《V85S-LSR

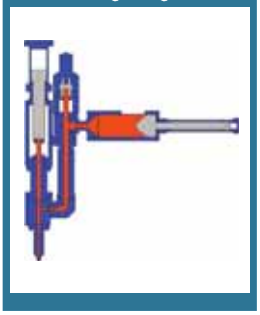
Special LSR hydraulic shut-off nozzle (with cooling)

《V85SD-LSR

HTV Solid silicon rubber IMM.

1. Stable hydraulic driving device [Bulk silica gel].
2. With accurate and reliable metering screw plunger injection.

Metering & Additive Feeding Diagram



HTV55S-GII》

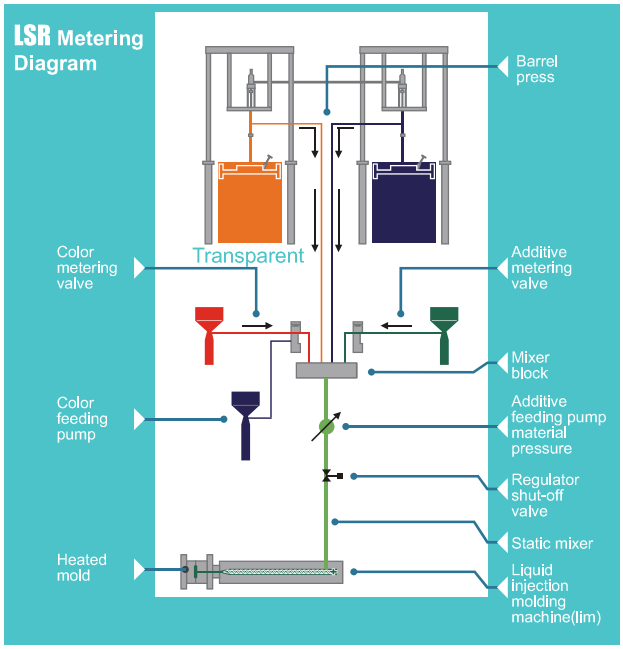
V120R3-P+LSR
Multi-color/material
（LSR+ Plastic）

V120R3-P+LSR》

SPECIFICATION	MODEL	UNIT	V55S-LSR	V55SD-LSR	V55R2-LSR	V85S-LSR	V85SD-LSR	V85R2-LSR	V120S-LSR	V120SD-LSR
	Injection Unit Selection	Series	SPII			SPII,SPIII			SPII,SPIII	
Clamping Unit	Clamping Force	kN(tf)	539(55)			833(85)			1176(120)	
	Mold Opening Force	kN(tf)	81.8(8.35)			101(10.3)			247(25.2)	
	Clamping Stroke	mm	200			250			280	
	Min.Mold Thickness (B)	mm	170(250)			220(320)			270(370)	
	Max.Opening (B)	mm	370(450)			470(570)			550(650)	
	Distance Between Tie Bars	mm	445*255		—	500*385	658*335	—	760*380	
	Max.Mould Size	mm	380*376	380*376	450*200	550*470	500*475	340*340	580*540	580*540
	Max.Mould Weight	KG	385	750	700	670	1000	900	925	1370
	Platen / Slide Size	mm	500*396	890*396	Φ880	620*490	1135*495	Φ980	670*560	1290*560
	Ejector Distance	mm	95	95	95	95	95	95	95	95
	Ejector Force	kN(tf)	26.5(2.7)	26.5(2.7)	26.5(2.7)	26.5(2.7)	26.5(2.7)	45(4.6)	45(4.6)	45(4.6)
	Number of Ejectors	pcs	3	3	3	3	3	3	3	3
Others	System Pressure	Mpa(kgf/cm²)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)
	Oil Tank Capacity	L	210	220	280	300	330	380	400	450
	Electric Power	kW(HP)	7.5(10)	11(15)	11(15)	15(20)	15(20)	15(20)	18.5(25)	18.5(25)
	Height of Working Table	mm	977	1038	1115	1051	1146	1180	1213	1310
	Machine Dimensions L*W H	mm	2016*1265 2382(2992)	1650*1380 2375(2985)	1755*1598 2500(3080)	2140*1410 2720(3460)	2090*1700 2730(3450)	2145*1772 2760(3500)	2538*1770 2958(3828)	2745*1980 2958(3828)
	Machine Weight	tf	1.9	2.2	2.7	3.4	3.7	4.3	6.1	5.9

SPECIFICATION	MODEL	UNIT	SPII						SPIII					
	Screw Diameter	mm	Φ18	Φ20	Φ22	Φ25	Φ28	Φ35	Φ35	Φ40	Φ45	Φ50	Φ55	Φ60
Injection Unit	Screw Stroke	mm	115						180					
	Theoretical Injection Volume	cm³	28	36	41.7	56.4	70.8	110.6	173	226	286	353	427	508
	Max.Injection Pressure	Mpa(kgf/cm²)	67(688)						67(688)					
	Injection Speed (Speed up)	mm/s	180						V85LSR 107		V120LSR 138		V160LSR/V200LSR 180	
	Screw Speed Rotation	r.p.m	0~240						0~300					
	Nozzle Sealing Force	kN	53.8(5.5)						51.7(5.3)					
	Nozzle Out From Platens	mm	≥45						≥45					

LSR Metering Diagram



LSR-2MM

1. 2KM patent-Linked hydraulic drive.
2. Mixing ratio fixed 100:100
3. 20L/200L follower plates replaceable
4. Additional color metering

LSR-2MM

V85/1170R2-LSR

Stable full automation of Nipple production (20 sec/cycle)

MT90-LSR

1. The clamping force can be more even because of direct clampingat the center design and lifetime of the platen can be extended.
2. Insulation plate(standard;within 200°C）.
3. Equipped with pneumatic sealing nozzle, air blow and ejector design.

MT90-LSR

V120R2-LSR	V160S-LSR	V160SD-LSR	V160R2-LSR	V200S-LSR	V200SD-LSR	V200R2-LSR	MT90-LSR	MT120-LSR	MT160-LSR
	SPII,SPIII			SPII,SPIII			M30,M90	M30,M90,M120	M30,M90,M120
	1568(160)			1960(200)			882(90)	1176(120)	1568(160)
	247(25.2)			161.5(16.4)			43(4.3)	43(4.3)	63.9(6.5)
	300			350			380	460	600
	280(380)			330(430)			160	180	200
	580(680)			680(780)			540	640	800
—	860*420		—	910*450		—	380*380	425*425	480*480
400*400	710*630	640*630	500*500	770*680	730*710	590*590	570*360	630*415	750*460
1250	1200	1820	1500	1495	2325	1830	—	—	—
Φ1170	730*650	1400*650	Φ1360	860*700	1590*730	Φ1590	600*590	662.5*655	770*770
105	115	115	100	140	140	140	90	110	140
45(4.6)	45(4.6)	45(4.6)	45(4.6)	45(4.6)	45(4.6)	45(4.6)	33.5(3.4)	48(4.9)	59(6)
5	5	5	5	5	5	5	5	5	5
13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	13.7(140)	17.2(175)	17.2(175)	17.2(175)
510	600	660	720	790	840	910	305	350	460
18.5(25)	22.5(30)	22.5(30)	30(40)	30(40)	37.5(50)	37.5(50)	13	15	22
1300	1323	1413	1395	1323	1690	1663	—	—	—
2737*2003 2950(3810)	2687*1960 3089(3949)	2721*2160 3030(3890)	2745*2118 3038(3898)	2867*2060 3363(4223)	2980*2500 3584(4464)	3498*2392 3475(4335)	4225*1468 1724	4710*1451 1839	5235*1636 1929
6.5	8.2	9.1	9.4	12.3	13.8	14.0	4.1	5.2	7.2

M30				M90				M120		
Φ18	Φ20	Φ22	Φ25	Φ25	Φ30	Φ35	Φ40	Φ40	Φ45	Φ50
120				160				160		
30	37	45	59	78	113	154	201	201	254	432
181(1848)	181(1848)	181(1848)	181(1848)	150(1531)	150(1531)	150(1531)	150(1531)	124(1270)	124(1270)	124(1270)
MT90-LSR MT120-LSR MT160-LSR				MT90-LSR MT120-LSR MT160-LSR				MT120-LSR		MT160-LSR
180				144	170	180		130		160
0~240				0~300				0~240		
33.6(3.4)				40.7(4.1)				56.8(5.8)		
≥45				≥45				≥45		

DAP series Clamping Force:35-250Ton

1. Vertical clamping, vertical injection, easy to insert.
2. High-temperature resistant insulation plate, ensures that the mold heat transfer caused by the life cycle of the machine, stability problems and the unnecessary energy waste.
3. Mold heat module be supplied.
4. Customer can choice single slide tables(S),double slide table(SD) or rotary table(R),to increase production.

《V85R3-B

BMC Special Equipment series

1. BMC special thermosetting injection molding barrel combination and screw combination.
2. Special hydraulic feeding mechanism is installed on injection cylinder，direct connect with barrel feed-hole，enabling barrel cannot stressed deformation in feeding in.
3. Sectional type ejector function, can be used for cold materials or short materials, mold design, thereby reducing the water waste, reduce costs.
4. Hard chrome plated high tensile steel tie-bar , specially deep-hardened and chrome plated for extra durability，it owns ascendant abrasion performance.
5. High-temperature resistant insulation plate, ensures that the mold heat transfer caused by the life cycle of the machine, stability problems and the unnecessary energy waste.

MT120-BMC》

《H120SD-BMC

AT series

Automatic continuous piece of injection molding machine

1. Machine has compact structure, small occupied space, than the traditional automatic LED continuous injection machine saves the area of 15%-20%, improve the use of vendors plant utilization.
2. Injection unit adopts Multitech SPM single-cylinder injection system, with good rigidity and high precision.
3. Automatic lead frame mechanism adopts servo motor to drive THK high precision ball screw, it is fast, accurate and high efficiency. Lead frame mechanism with clamping and positioning adopts brand new design. Strip can be produced easily for 0.1mm-0.5mm thickness and 15-70mm width. Without extra fixture, it is very convenient for production and operation.

V55-AT》

Fully Automatic Plug Injection Molding Machine

Two station rotary table with 4 axis robot and manipulator to realize full automatic production: automatic insert, molding, pick up, inspection, fully realize the unmanned production.

《V85R2

Fully Automation Golf ball Injection Molding Machine

1. Single Slide table with fully automation [160Ton].
2. Auto insert & pick up for ball core.
3. 8 cavity per mold.
4. Monthly capacity 400-450 Thousands pcs.

H160S-AGF》

Injection machine with fully automation for bottle opener

1. Insert molding fully automation by using robot.
2. Turn core device with servo motor driven,Quick,Stable Precise.
3. All round protection for electric components.

《V85R2


Machine application
1 Automotive
2 Mobile phone
3 LSR products
4 Electronic appliances

Multitech Footprint

New factory in Dong Guan Chang Ping

Holding ULTITECH | Vertical injection molding machine
Multitech industries group (Holding) Ltd.

Oversea sale office

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